PWR

PWM7

HOST

OTG

UART3 CONSOLE

DVP

GT911

Header15-MIPI

FFC40-RGBLCD

FPC6

Header 2

Header 11X2

PAM8301

MT9284-28J

XC6206-1.2

XC6206-2.8

OV-DVP

RY1303

MIC

SW-CE

USB-TypeC-16P

OV2640 A:2.8,D:1.2,IO:1.8/2.8/3.3
OV5640 A:2.8,D:1.5,IO:1.8/2.8
OV7725 A:3.3,D:1.8,IO:2.8/3.3

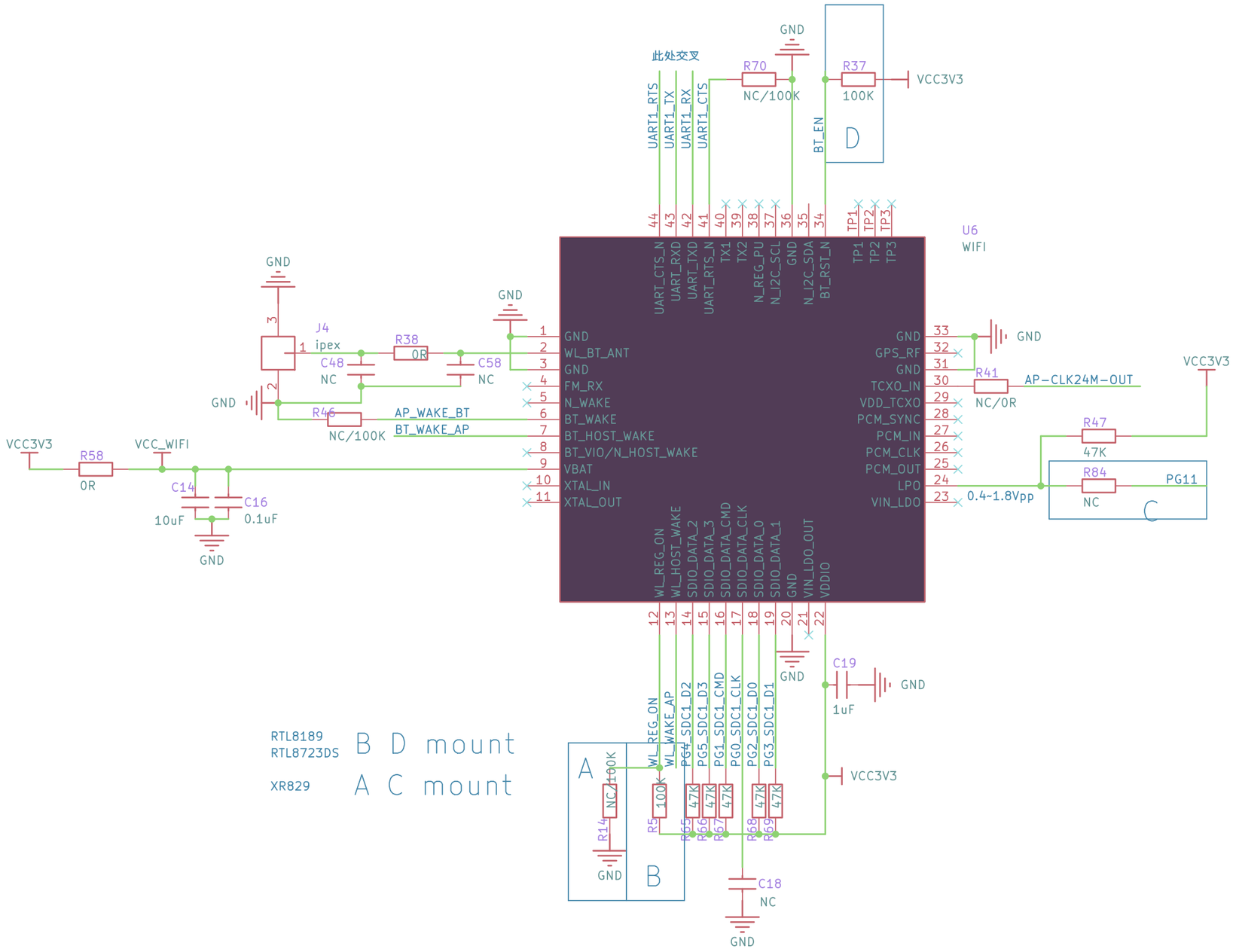
Idd-A max 40mA
Idd-DO max 140mA

DRAM 1.8V
VCC-DRAM

CORE 0.9V
VCC-CORE

PWR-ON Sequence
wait 2ms

DVP处已上拉


此处交叉
GND
R70
NC/100K
R37
100K
VCC3V3
BT_EN
UART1_RTS
UART1_TX
UART1_RX
UART1_CTS
D
U6
WIFI
UART_CTS_N
UART_RXD
UART_TXD
UART_RTS_N
TX1
TX2
N_REG_PU
N_I2C_SCL
GND
N_I2C_SDA
BT_RST_N
TP1
TP2
TP3
J4
ipex
R38
0R
C48
NC
C58
NC
R46
NC/100K
AP_WAKE_BT
BT_WAKE_AP
GND
GND
GND
GND
GND
GND
WL_BT_ANT
GND
FM_RX
N_WAKE
BT_WAKE
BT_HOST_WAKE
BT_VIO/N_HOST_WAKE
VBAT
XTAL_IN
XTAL_OUT
GPS_RF
GND
TCXO_IN
VDD_TCXO
PCM_SYNC
PCM_IN
PCM_CLK
PCM_OUT
LPO
VIN_LDO
R41
NC/0R
AP-CLK24M-OUT
0.4~1.8Vpp
VCC3V3
R47
47K
R84
NC
PG11
C
VCC3V3
R58
0R
VCC_WIFI
C14
10uF
C16
0.1uF
GND
WL_REG_ON
WL_HOST_WAKE
SDIO_DATA_2
SDIO_DATA_3
SDIO_DATA_CMD
SDIO_DATA_CLK
SDIO_DATA_0
SDIO_DATA_1
GND
VIN_LDO_OUT
VDDIO
C19
1uF
GND
VCC3V3
WL_REG_ON
WL_WAKE_AP
PG4_SDC1_D2
PG5_SDC1_D3
PG1_SDC1_CMD
PG0_SDC1_CLK
PG2_SDC1_D0
PG3_SDC1_D1
A
100K
NC
R14
R5
R65
R66
R67
R68
R69
47K
B
GND
C18
NC
GND
RTL8189
RTL8723DS
B D mount
XR829
A C mount

VCC3V3
R7 10K
R37 10K
SPI0_CS
SPI0_MISO
SPI0_WP
U3
/CS
DO
/WP
GND
VCC
/HOLD
CLK
DI
SPI0_HOLD
SPI0_CLK
SPI0_MOSI
SPIFLASH_SOP8W
C42 0.1uF
R26 10K
GND
J1
SDC0_D2
SDC0_D3
SDC0_CMD
SDC0_CLK
SDC0_D0
SDC0_D1
DAT2
CD/DAT3
CMD
VDD
CLK
VSS
DAT0
DAT1
TF Card
GND
G1
G2
G3
G4
G5
G6
DET
SDC0_DET
R18 10K
C41 0.1uF
TF5033981892
R48 10K
R75 10K
R76 NC
R77 NC
R78 10K
SPI0_MISO
SPI0_MOSI
SEL[1:0]
00: NOR > NAND
01: SD > NOR > Other
√10: SD > NAND > Other
11 SD0 > EMMC2 > EMMC2_USR >Other
C8 22pF
X1
XTAL2520-24M CL=18PF
C9 22pF
C43 22pF
XT1
C45 22pF
R40 680K 1%
32.768K CL=12.5pF
C79 0.1uF
LDOA-OUT
AP-CLK24M-OUT
XO
XI
32O
32I
R64 0R
VCC_RTC
RESET
C44 2.2uF
C68 2.2uF
C50 2.2uF
1.8V@0.26A
1.8V/1.5V/1.35@0.4A
Default 1.35V
LDOA-OUT
R74 10K
RESET
C84 0.1uF
复位电路
CSI/UART1245/TWI9123/PWM234/RMII
AVDD2V8
VCC3V3
R56 0R
R57 NC
VCC-RMII-CSI
2.8V/3.3V
C66 0.1uF
LAN8720/1.8-3.3
IP101GR/2.5/3.3
OV2640 IO:1.8/2.8/3.3
OV5640 IO:1.8/2.8
OV7725 IO:2.5-3.3
TXCK R1 25M MDIO MDC RXER TXEN T1 T0 CRS RO
MCLK PCLK D7 D6 D5 D4 D3 D2 D1 D0 HS VS
U1
EPAD
WIFI+BT/GMII
USB
TVIN
TPADC
GPADC
Audio
Card
SPI/EMMC
PLL
DCXO
RTC
LDO
PE
DRAM
LCD
D1s-eLQFP128
UART1_TX
UART1_RX
UART1_RTS
UART1_CTS
WL_WAKE_AP
PG11/32K
PG6
PG7
PG8
PG9
PG10
PG11
PF0/D1
PF1/D0
PF2/CLK
PF3/CMD
PF4/D3
PF5/D2
PF6/OWA/IR-RX/PWM5
PC7/HOLD/D3
PC6/WP/D0
PC5/MISO/D1/SEL1
PC4/MOSI/D2/SEL0
PC3/SPI0-CS0/SDC2-CMD
PC2/SPI0-CLK/SDC2-CLK
SPI0_CLK R40 33R
VCC-PLL
REFCLK-OUT
DXOUT
DXIN
X32KOUT
X32KIN
VCC-RTC
RESET
Cshunt = 6.5pF
Cshunt = 1.1pF
LDOA-OUT
LDO-IN
LDOB-OUT
TWI2
PE13 SDA
PE12 SCK
PE
PE3 PE2 PE11 PE10 PE9 PE8 PE7 PE6 PE5 PE4 PE0 PE1
VDD-SYS0
DZQ
VCC-DRAM0
VCC-DRAM1
VDD18-DRAM
R42 240R 1%
VCC-DRAM
LDOA-OUT
VDD-SYS1
PD22/OWA/PWM7
PD21/VSYNC
PD20/HSYNC
PD0/D2/V0P/D0P
PD1/D3/V0N/D0N
PD2/D4/V1P/D1P
PD3/D5/V1N/D1N
PD4/D6/V2P/CKP
PD5/D7/V2N/CKN
PD6/D10/CKP/D2P
PD7/D11/CKN/D2N
PD8/D12/V3P/D3P
PD9/D13/V3N/D3N
LCD_VSYNC
LCD_HSYNC
LCD_D2
LCD_D3
LCD_D4
LCD_D5
LCD_D6
LCD_D7
LCD_D10
LCD_D11
LCD_D12
LCD_D13
R32 NC
LCD_PWM
CTP-INT
DDR2 1.8V
C21 10uF
C24 1uF
C52 0.1uF
C77 0.1uF
C2 10uF
C34 0.1uF
C35 0.1uF
C36 0.1uF
C10 10uF
C38 0.1uF
C39 0.1uF
C53 0.1uF
C47 0.1uF
PG0_SDC1_CLK
PG2_SDC1_D0
PG1_SDC1_CMD
PG3_SDC1_D1
PG4_SDC1_D2
PG5_SDC1_D3
BT_EN
BT_WAKE_AP
AP_WAKE_BT
WL_REG_ON
R39 33R
VCC-CORE
USB0_P
USB0_N
USB1_N
USB1_P
USB0-DP
USB0-DM
USB1-DM
USB1-DP
TVIN_VRN
TVIN_VRP
TVIN1
TVIN0
TVIN-VRN
TVIN-VRP
TVIN1
TVIN0
VCC-TVIN
NC
R54 NC
TP-Y2
TP-Y1
TP-X2
TP-X1
GPADC0
R71 0R
AVCC1.8
C71 1uF
C69 1uF
C70 0.1uF
C72 1nF
C73 1nF
C74 1nF
C75 1nF
1.8V
HPOUTFB
HPOUTL
HPOUTR
HPVCC
R64 33R
R3 33R
C80 0.1uF
C6 0.1uF
540Vrms
U2
OUT
IN
GND
XC6206-1.8V
C5 0.1uF
C22 2.2uF
LINEINL
LINEINR
FMINL
FMINR
VRA1
AGND
VRA2
AVCC
MICIN3N
MICIN3P
1.7Vpp
C40 0.47uF
C78 0.47uF
C11 2.2uF
R15 0R
PB2 TWI0-SDA/TX4
PB3 TWI0-SCK/RX4
PB4 TWI1-SCK/TX5
VCC-IO VCC3V3
PB5 TWI1-SDA/RX5/PWM0
VDD-SYS2 VCC-CORE
PB6 TX3
PB7 RX3
CONSOLE
TVOUT0
TVCC-TVOUT
TV_OUT
TP1
TP2
R70 0R
C12 0.1uF
R60 75R
DE/PD19
CLK/PD18
D23/PD17
D22/PD16
D21/PD15
D20/PD14
D18/PD12
D19/PD13
D15/PD11
D14/PD10
VCC-PD
LVDS1.8
LCD_DE
LCD_CLK
LCD_D22
LCD_D21
LCD_D20
LCD_D18
LCD_D19
LCD_D15
LCD_D14
R59 33R
LDOA-OUT
C13 0.1uF
C20 0.1uF
RPI-MIPI(TWI2)
LCD_D2 D0_P
LCD_D3 D0_N
LCD_D4 D1_P
LCD_D5 D1_N
LCD_D6 CK_P
LCD_D7 CK_N
PE12 SCK RPI_SCK
PE13 SDA RPI_SDA
RGB666=PD0-PD21
PB3 CTP_INT
PB2 CTP_RST
RPI_SCK
RPI_SDA